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81 [Visualizing Patterns: Polyarchy visualization: visualizing multiple intersecting hierarchies](#)



George Robertson, Kim Cameron, Mary Czerwinski, Daniel Robbins

 April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

 Full text available: pdf(920.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a new information structure composed of multiple intersecting hierarchies, which we call Polyarchies. Visualizing polyarchies enables use of novel views for discovery of relationships which are very difficult using existing hierarchy visualization tools. This paper will describe the visualization design and system architecture challenges as well as our current solutions. A Mid-Tier Cache architecture is used as a "polyarchy server" which supports a novel web-based polyarchy visualiza ...

Keywords: 3D, animation, hierarchy, information visualization, metadirectory, polyarchy, query language, user studies

82 [ObjectGlobe: Ubiquitous query processing on the Internet](#)



R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker

 August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

 Full text available: pdf(251.44 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

83 [Going wireless, enabling an adaptive and extensible environment](#)



Theo G. Kanter

 February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Full text available:  pdf(483.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper discusses limitations in existing and projected solutions for delivering applications to mobile users (e.g., in 3G) in an increasingly diverse heterogeneous wireless infrastructure in combination with the on-going deregulation of mobile communication and with an increasing number of more narrowly defined roles of parties participating in the delivery of applications to mobile users. Furthermore, for future service growth, users need to be the center of communication via applications t ...

Keywords: agents, context, scalability, service, wireless

84 Design technology productivity in the DSM era (invited talk)

Andrew B. Kahng

January 2001 **Proceedings of the 2001 conference on Asia South Pacific design automation**


Full text available:  pdf(126.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Future requirements for design technology are always uncertain due to changes in process technology, system implementation platforms, and applications markets. To correctly identify the design technology need, and to deliver this technology at the right time, the design technology community - commercial vendors, captive CAD organizations, and academic researchers - must focus on improving design technology time-to-market and quality-of-result. Put another way, we must address the well-known ...

85 Multimedia and visualization: Dynamic structuring of web information for access visualization

Jess Y. S. Mak, Hong Va Leong, Alvin T. S. Chan

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(765.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

Keywords: DOM, VRML, XML, visualization, web document structure

86 Audiovisual-based hypermedia authoring: using structured representations for efficient access to AV documents

Gwendal Auffret, Jean Carrive, Olivier Chevet, Thomas Dechilly, Rémi Ronfard, Bruno Bachimont

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**


Full text available:  pdf(1.57 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: audiovisual, content indexing, hypermedia design, ontology, structured documents

87 The situation in object-oriented specification and design

George W. Cherry

December 1996 **Proceedings of the conference on TRI-Ada '96: disciplined software development with Ada**

Full text available:  pdf(1.61 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



88 Move to component based architectures: introducing Microsoft's .NET platform into the college classroom

Meg Murray

January 2004 **The Journal of Computing in Small Colleges**, Volume 19 Issue 3

Full text available:  pdf(45.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A transformation has been occurring in the architectural model for computer-based application intense software systems. This new model, software-as-a-service, will have a profound impact on the design and development of software for many years to come and as such college level computing curriculums will need to incorporate the concepts and methodologies associated with this new architecture. The platform is built upon a view of interrelated, distributed peer-level software modules and components ...



89 Data management issues in electronic commerce: Contracting in the days of eBusiness

W. Hümmer, W. Lehner, H. Wedekind

March 2002 **ACM SIGMOD Record**, Volume 31 Issue 1

Full text available:  pdf(544.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Putting electronic business on a sound foundation --- model theoretically as well as technologically --- has to be seen as a central challenge for research as well as for commercial development. This paper concentrates on the discovery and the negotiation phase of concluding an agreement based on a contract. We present a methodology how to come seamlessly from a many-to-many relationship in the discovery phase to a one-to-one relationship in the contract negotiation phase. Making the content of ...



90 Report on the 5th international workshop on knowledge representation meets databases (KRDB'98)

Alex Borgida, Vinay K. Chaudhri, Martin Staudt

September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3

Full text available:  pdf(682.76 KB)

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